As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

# 33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	:		Priority Cl Yes	aimed No
(Number)	(Country)	(Day/Month/Year Filed)		
I hereby claim the benefit un application(s) listed below.	der 35 U.S.C. §	119(e) of any United States	provisional	
60/119,468 (Application Serial No.)	10 February (Filing D	<del></del>		

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US00/03062	8 February 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), and Michele Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20878.

Full name of first joint inventor:	Daniel R. Soppet
Turning and an importance	Date:
Inventor's signature:  Residence: 15050 Stillfield Place, Centre	
	vine, vA 22020 Citizensinp. Od
Post Office Address: same as above	
Full name of additional joint inventor:	Paul A. Moore
Inventor's signature:	Date:
Residence: 19005 Leatherbark Drive, Ger	
Post Office Address: same as above	1
1 Ost Office Address.	
Full name of additional joint inventor:	Yanggu Shi
Full hame of additional John M. Onto	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Inventor's signature:	Date:
Residence: 437 West Side Drive, Apt. 102, G	Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above	8,
Tost Office reduces.	
Full name of additional joint inventor:	Steven M. Ruben
•	
Inventor's signature:	Date:
Residence: 18528 Heritage Hills Drive, (	Olney, MD 20832 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor:	Craig A. Rosen
· ·	
Inventor's signature:	Date:
Residence: 22400 Rolling Hills Road, La	ytonsville, MD 20882 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor:	David W. LaFleur
Inventor's signature:	Date:
Residence: 3142 Quesada Street, N.W., Wa	shington, DC 20015 Citizenship: US
Post Office Address: same as above	

Full name of additional joint inventor:	Henrik Olsen		
Inventor's signature:		Date:	
Residence: 182 Kendrick Place, #24, Ga	ithershurg MD 20878	Citizenship:	DK
Post Office Address: same as above	1110100415, 1112 20070	O10120115111p	
Tost Office Address. Same as above			
Full name of additional joint inventor:	Reinhard Ebner		
Inventor's signature:	,	Date:	
Residence: 9906 Shelburne Terrace, #316, C	Gaithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above			
	-		
Full name of additional joint inventor:	Kimberly Florence		
Tun hance of additional joint my one of			
Inventor's signature:		Date:	
Residence: 12805 Atlantic Avenue, Roc	kville, MD 20851	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Paul Young		
1/1/20			(1)
Inventor's signature:		Date: <u>/0/0</u> 5	5/00
Residence: 122 Beckwith Street, Gaither	rsburg, MD 20878	Citizenship:	'_US_
Post Office Address: same as above			
Tall and a fallitional joint inventors	George Komatsoulis		
Full name of additional joint inventor:	George Komatsouns		
Inventor's signature:		Date:	
Residence: 9518 Garwood Street, Silver	Spring, MD 20901	Citizenship:	US
Post Office Address: same as above	7, 3,	. *	
1 00t 011100 1 tda1000.			
Full name of additional joint inventor:	Jian Ni		
		Data	
Inventor's signature:	:ll- MD 20952	Date:	CN
Residence: 5502 Manorfield Road, Rock	ville, MD 20853	Citizenship:	CIN
Post Office Address: same as above			

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### 33 HUMAN SECRETED PROTEINS

the specification of which was filed on July 28, 2000 as Application Serial No. 09/628,508.

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Prior Foreign Application(s	):		Priority C	laimed
			Yes	No
(Number)	(Country)	(Day/Month/Year Filed)		
I hereby claim the benefit u application(s) listed below.	nder 35 U.S.C.	§ 119(e) of any United States	provisional	
60/119,468 (Application Serial No.)	10 Februa (Filing	<del></del>		
365(b) of any PCT internations insofar as the subject matter United States or PCT internations. S.C. § 112, I acknowledge	onal application of each of the ational applicate the duty to di	§ 120 of any United States ap n designating the United State claims of this application is n tion in the manner provided b sclose information that is mat ailable between the filing date	es, listed below ot disclosed in y the first para erial to patent	v and, the pric graph of ability as

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), and Michele Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20878.

Pending

(Status: patented, pending, abandoned)

and the national or PCT international filing date of this application.

8 February 2000

(Filing Date)

PCT/US00/03062

(Application Serial No.)

Full name of first joint inventor:	Daniel R. Sopper	<del>?</del>	
	m down to	L D. M	1/
Inventor's signature:	1 September 1	Date: 10/	60 / TIC
Residence: 15050 Stillfield Place, Centre	eville, VA/24020	Citizenship:	_03
Post Office Address: same as above			
Full name of additional joint inventor:	Paul A. Moore		
Inventor's signature:		Date:	
Residence: 19005 Leatherbark Drive, Ger	rmantown, MD 20874	Citizenship:	UF
Post Office Address: same as above	11101100 11111	- •	
Fost Office Address. Same as above			
Full name of additional joint inventor:	Yanggu Shi		
run name of additional joint inventor.	1 unggu om		
Inventor's signature:		Date:	
Residence: 437 West Side Drive, Apt. 102, C	Gaithersburg, MD 20878	_ Citizenship:	<u>Cì</u>
Post Office Address: same as above	,		
Full name of additional joint inventor:	Steven M. Ruben		
This name of additional joint as saves			
Inventor's signature:		Date:	
Residence: 18528 Heritage Hills Drive,	Olney, MD 20832	Citizenship:	<u>U</u> ;
Post Office Address: same as above			
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		Date:	
Inventor's signature:  Residence: 22400 Rolling Hills Road, La	aytoneville MD 20882	Date Citizenship:	U
	aytonsvine, with 20002	-	<u> </u>
Post Office Address: same as above			
Full name of additional joint inventor:	David W. LaFleur		
Inventor's signature:		Date:	
Residence: 3142 Quesada Street, N.W., W	ashington, DC 20015	Citizenship:	Ţ
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Full name of additional joint inventor:	Henrik Olsen		
Inventor's signature:		Date:	
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Post Office Address: same as above	attioisour <sub>5</sub> , 1710 2007 0	O	
Post Office Address. Same as above			
Full name of additional joint inventor:	Reinhard Ebner		
•			
Inventor's signature:		Date:	
Residence: 9906 Shelburne Terrace, # 316, 0	Gaithersburg, MD 20878	_ Citizenship:	_DE
Post Office Address: same as above			
	YZ* 1 1 T9		
Full name of additional joint inventor:	Kimberly Florence		<del></del>
Towards dispatives		Date:	
Inventor's signature:  Residence: 12805 Atlantic Avenue, Roc	kville MD 20851	Citizenship:	US
Post Office Address: same as above	JK 1110, 1710 2000 1	, ——————	
1 OSt Office Fiduress.			
Full name of additional joint inventor:	Paul Young		
		<b>~</b> .	
Inventor's signature:	1 200000	Date:	TIC
Residence: 122 Beckwith Street, Gaithe	ersburg, MD 208/8	Citizenship:	_US
Post Office Address: same as above			
Full name of additional joint inventor:	George Komatsoulis		
run name or additional joint inventor.	George Homesound		
Inventor's signature:		Date:	
Residence: 9518 Garwood Street, Silve	r Spring, MD 20901	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Jian Ni		
		Date:	
Inventor's signature:	avilla MD 20052	Citizenship:	CN
Residence: 5502 Manorfield Road, Rock Post Office Address: same as above	KVIIIE, IVID 20833	- Chizchship.	
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PCT/US00/03062	8 February 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

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Full name of first joint inventor:	Daniel R. Soppet
Inventor's signature:	Date:
Residence: 15050 Stillfield Place, Centre	
Post Office Address: same as above	, , , , , , , , , , , , , , , , , , ,
Tost Office Address. Same as asset	
Full name of additional joint inventor:	Paul A. Moore
Inventor's signature:	Date:
Residence: 19005 Leatherbark Drive, Ger	mantown, MD 20874 Citizenship: UK
Post Office Address: same as above	
Full name of additional joint inventor:	Yanggu Shi
Inventor's signature:	Date:
Residence: 437 West Side Drive, Apt. 102, G	
Post Office Address: same as above	annersourg, trib 20070 Citizenship.
Full name of additional joint inventor:	Steven M. Ruben
Inventor's signature:	Date:
Residence: 18528 Heritage Hills Drive, C	Olney, MD 20832 Citizenship: US
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Full name of additional joint inventor:	Craig A. Rosen
Inventor's signature:	Date:
Residence: 22400 Rolling Hills Road, La	
Post Office Address: same as above	ytonsvine, wib 20002 Citizensinp
1 OSt Office Address. Same as above	
Full name of additional joint inventor:	David W. LaFleur
Inventor's signature:	Date:
Residence: 3142 Quesada Street, N.W., Wa	
Post Office Address: same as above	

Full name of additional joint inventor:	Henrik Olsen		<del></del>
Inventor's signature:		Date:	
Residence: 182 Kendrick Place, #24, Gait	thershurg MD 20878	Citizenship:	DK
Post Office Address: same as above	210100 di 5, 1712 2007 0	Omzemp.	
1 Ost Office Mudicios.			
Full name of additional joint inventor:	Reinhard Ebner		
Inventor's signature:	llaco	Date: 10/1	0/10
Residence: 9906 Shelburne Terrace, # 316, Ga	aithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above			
Full name of additional joint inventor:	Kimberly Florence		
full hame of additional joint inventor.	Ithiberry Plotence		
Inventor's signature:		Date:	
Residence: 12805 Atlantic Avenue, Rock	ville, MD 20851	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Paul Young		
Inventor's signature:		Date:	
Residence: 122 Beckwith Street, Gaithers	burg, MD 20878	Citizenship:	<u>US</u>
Post Office Address: same as above			
Full name of additional joint inventor:	George Komatsoulis		-1
Inventor's signature:	3 : 1/10 20001	Date:	TIC
Residence: 9518 Garwood Street, Silver S	Spring, MD 20901	Citizenship:	US
Post Office Address: same as above			*
Full name of additional joint inventor:	Jian Ni		
Instantanta siamatana.		Date:	
Inventor's signature:  Residence: 5502 Manorfield Road, Rocky	ille MD 20853	Citizenship:	CN
Post Office Address: same as above	1110, 11110 20000	CITEDIAN P.	

PZ037P1

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Prior Foreign Application(	s):		Priority C Yes	laimed No
(Number)	(Country)	(Day/Month/Year Filed)		
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60/119,468 (Application Serial No.)	10 Februa (Filing	<del></del>		

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PCT/US00/03062	8 February 2000	Pending
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run name of first joint inventor:	Damei R. Sopper		<del></del>
Inventor's signature:		Date:	
Residence: 15050 Stillfield Place, Centre	ville VA 22020	Citizenship:	US
Post Office Address: same as above	71110, 711 22020		
1 OSt Office Address. Same as above			
Full name of additional joint inventor:	Paul A. Moore		
Inventor's signature: faw	A. Moore	Date: 10 7	00
Residence: 19005 Leatherbark Drive, Ger	rmantown, MD 20874	Citizenship:	UK
Post Office Address: same as above		-	
Full name of additional joint inventor:	Yanggu Shi		
,			o 1
Inventor's signature:	Con Why	Date: $\sqrt{0}$	1/10
Residence: 437 West Side Drive, Apt. 102, C	Faithershurg MD 20878	Citizenship:	CN
Post Office Address: same as above	artifersourg, 1412 20070		
Tost Office Address. Same as above			······································
		•	
Full name of additional joint inventor:	Steven M. Ruben		
run name of auditional joint niventor.	Steven 141. Ruben		
Inventor's signature:		Date: / c	3/12/06
Residence: 18528 Heritage Hills Drive, (	Olney MD 20832	Citizenship:	115
Post Office Address: same as above	5111cy, 1415 20032	Citizensinp.	
Fost Office Address. Same as above			·····
Full name of additional joint inventor:	Craig A. Rosen		
run name of additional joint inventer.	Craig A. Rusen		
Inventor's signature:		Date: /0/	14/00
Residence: 22400 Rolling Hills Road, La	vitansvilla MD 20882	Citizenship:	115
	ytonsvine, MD 20002	Chizchship.	
Post Office Address: same as above			
Full name of additional joint inventor:	David W. LaFleur		
	<u> </u>		
Inventor's signature:		Date: 10	9 00
Residence: 3142 Quesada Street, N.W., Wa	shington DC 20015	Citizenship:	IIS
Post Office Address: same as above	Simiston, DC 20013	Citizonomp.	
1 ost Office Address. Same as above			

Full name of additional joint inventor:	Henrik Olsen		
Inventor's signature:	Nan	Date:	10/9/00
Residence: 182 Kendrick Place, #24, Gait	hersburg MD 20878	Citizenship:	DK
Post Office Address: same as above	10150 drg, 1712 2007 0	Oluzona, P.	
Tost Office Address.			
Full name of additional joint inventor:	Reinhard Ebner		
Inventor's signature:		Date:	
Residence: 9906 Shelburne Terrace, #316, Ga	ithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above			
Full name of additional joint inventor:	Kimberly Florence		
Inventor's signature:	Florence	Date: 10/1	1/m
Residence: 12805 Atlantic Avenue, Rock	<u> </u>	Citizenship:	US
Post Office Address: same as above	7 HIC, 171D 2003 1	Citizonomp.	
Full name of additional joint inventor:	Paul Young		
Inventor's signature:		Date:	
Residence: 122 Beckwith Street, Gaithers	hurg MD 20878	Citizenship:	US
Post Office Address: same as above	ourg, 141D 20070	Citizonionip.	
			<u></u>
Evil name of additional joint inventors	George Komatsoulis		
Full name of additional joint inventor:	George Kumatsouns	11	0 / -
Inventor's signature:	with	Date: 16 C	/cT2000
Residence: 9518 Garwood Street, Silver S	pring, MD 20901	Citizenship:	. US
Post Office Address: same as above			<del></del>
Full name of additional joint inventor:	Jian Ni		G/ ,
Inventor's signature:		Date:	79/00
Residence: 5502 Manorfield Road, Rocky	Tle. MD 20853	Citizenship:	CN
Post Office Address: same as above		<b>1</b> -	

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/5/00 (also known as United States Application No. 09/628.508, filed July 28, 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	_
· ·	Daniel R. Soppet		
Inventor's Signature:		Date:	_
_	Paul A. Moore		
Inventor's Signature:		Date:	
	Yanggu Shi		
Inventor's Signature:		Date:	_
	Steven M. Ruben		
Inventor's Signature:	G : L B	Date:	_
	Craig A. Rosen		
Inventor's Signature:	David W. LaFleur	Date:	_
Inventor's Signature:	Henrik Olsen	Date:	
		Date	
Inventor's Signature:	Reinhard Ebner	Date:	_
Inventor's Signature:		Date:	
inventor's dignature	Kimberly Florence		
Inventor's Signature:	Pal by	Date:	
	Paul Young	/ •	
Inventor's Signature:		Date:	
	George Komatsoulis		
Inventor's Signature:		Date:	_
	Jian Ni		

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/6/00 (also known as United States Application No. 09/628,508, filed July 28, 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

signature(s):			
Inventor's Signature:_	Dunil Roy	Date:	0/6/00
	Daniel R. Soppet		
Inventor's Signature:_		Date: _	
	Paul A. Moore		
Inventor's Signature:_		Date: _	
	Yanggu Shi		
Inventor's Signature:_		Date: _	
-	Steven M. Ruben		
Inventor's Signature:_		Date: _	
_	Craig A. Rosen		
Inventor's Signature:		Date: _	
	David W. LaFleur		
Inventor's Signature:		Date: _	
_	Henrik Olsen		
Inventor's Signature:_		Date: _	
-	Reinhard Ebner		
Inventor's Signature:_		Date: _	
	Kimberly Florence		
Inventor's Signature:		Date: _	
_	Paul Young		
Inventor's Signature:		Date: _	
	George Komatsoulis		
Inventor's Signature:_		Date: _	

Jian Ni

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 10/10/00 (also known as United States Application No. 09/628.508, filed July 28. 2000), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	
	Daniel R. Soppet		
Inventor's Signature:		Date:	
	Paul A. Moore		
Inventor's Signature:		Date:	
	Yanggu Shi		
Inventor's Signature:		Date:	_
	Steven M. Ruben		
Inventor's Signature:	C. '. A. B	Date:	
	Craig A. Rosen		
Inventor's Signature:	David W. LaFleur	Date:	
Inventor's Signature:	Henrik Olsen	Date:	
	460	Date: 10/10/00	-
Inventor's Signature:	Reinhard Ebner	DateDate.	
Inventor's Signature:		Date:	
mrontor o organization	Kimberly Florence		
Inventor's Signature:		Date:	
	Paul Young		
Inventor's Signature:		Date:	
	George Komatsoulis		
Inventor's Signature:	Iian Ni	Date:	

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Soppet, Moore, Shi, Ruben, Rosen, LaFleur, Olsen, Ebner, Florence, Young, Komatsoulis and Ni, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention(s) known as 33 Human Secreted Proteins for which application(s) for patent in the 10/16, United States of America has (have) been executed by the undersigned on 10/7, 10/9;10/12, (also 10/9,10/9, known as United States Application No. 09/628.508, filed July 28, 2000), in any and all applications 10/17, thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date: _	
	Daniel R. Soppet		
Inventor's Signature:	Pau A. Moor	Date: _	10/7/00
	Paul A. Moore		
Inventor's Signature:	hnumu Mh	Date:	16/9:/80
	Yanggu Shi		
Inventor's Signature:	16-1/h	Date:	10/12/00
	Steven M. Ruben		,
Inventor's Signature:	lafon	Date:	10//1/00
	Craig A. Rosen		/ /
Inventor's Signature:	and laty	Date:	10/9/00
	David W. LaFleur		
Inventor's Signature:		Date:	10/9/00
	Henrik Olsen		
Inventor's Signature:	A STATE OF THE STA	Date:	
	Reinhard Ebner		,
Inventor's Signature:	J. C. Solorence	Date: .	10/17/00
/	Kimberly Florence		
Inventor's Signature:		Date:	
	Paul Young		11. At 780
Inventor's Signature:	Trock H. Walla Bear	Date:	1000
	George Komatsoulis	~	16 at 2000
Inventor's Signature:	If a Ni	Date:	

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: SOPPET et al. Attorney Docket No.: PZ037P1C1

Application Serial No.: Not assigned Art Unit: Not assigned

Filed: Concurrently Herewith Examiner: Not assigned

Title: 33 Human Secreted Proteins

# STATEMENT UNDER 37 C.F.R. § 3.73, REVOCATION OF PRIOR POWERS OF ATTORNEY OR AUTHORIZATIONS OF AGENT, AND POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Commissioner for Patents Washington, D.C. 20231

Sir:

# Statement Under 37 C.F.R. § 3.73

Human Genome Sciences, Inc., organized and existing under the laws of the State of Delaware, having its principal place of business at 9410 Key West Avenue, Rockville, Maryland 20850, states that it is the assignee of record of the entire right, title and interest for the above-identified application by virtue of:

TOI THE	above-	identified application by virtue of.
	A.	An assignment from the inventor(s) of the above-identified application.
		1. The assignment was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame
		2. A copy of the assignment is attached.
	В.	An assignment from the inventor(s) of the above-identified application of the parent application (U.S. Patent Application No. 09/628,508, filed July 28, 2000, which is a continuation-in-part of Application No. PCT/US00/03062, filed February 8, 2000, which claims benefit under 35 U.S.C. §119(e) of Application No. 60/119,468, filed February 10, 1999), was filed in the U.S. Patent and Trademark Office on November 13, 2000 at Reel 11246, Frame 348.

☐ C.		A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:
		1. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.
		2. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.
		3. From: To: The document was recorded in the U.S. Patent and Trademark Office on, at Reel, Frame, or a copy thereof is attached.

The undersigned, whose title is supplied below, is empowered to sign this document on behalf of the assignee. The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

# Revocation of Prior Powers of Attorney or Authorizations of Agent

The assignee, Human Genome Sciences, Inc., hereby revokes all previous powers of attorney or authorizations of agent given in the above-captioned application.

# Power of Attorney or Authorization of Agent

The assignee, Human Genome Sciences, Inc., hereby appoints the Practitioners at **Customer Number 22195** as its attorneys or agents with full power of substitution, association, and revocation to prosecute the application identified above, including any continuation or divisional applications, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to the above-mentioned Customer Number, namely **22195**.

On behalf of Human Genome Sciences, Inc.

For:	Human	Genome	Sciences,	Inc
TOI.	Hullian	Othomic	DOIDINGS,	1110

Signature: HT

Name: James H. Davis, Ph.D.

Title: Senior Vice President and General Counsel

Date: November 30, 2001